

**2003**

**Virginia Department of Transportation**

**Daily Traffic Volume Estimates**

**Including Vehicle Classification Estimates**

where available

**Jurisdiction Report**

**US**

United States

Prepared By

**Virginia Department of Transportation**

**Mobility Management Division**

In Cooperation With

**U.S. Department of Transportation**

**Federal Highway Administration**

Virginia Department of Transportation  
Mobility Management Division  
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

## **Publication Notes**

### **Parallel Roads**

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

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VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT’s Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

## Glossary of Terms:

**Route:** The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

**Length:** Length of the traffic segment in miles.

**AADT:** Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

### QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

**4Tire:** Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

**Bus:** Percentage of the traffic volume made up of busses.

**2Axle Truck:** Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

**3+Axle Truck:** Percentage of the traffic volume made up of single unit trucks with three or more axles.

**1Trail Truck:** Percentage of the traffic volume made up of units with a single trailer.

**2Trail Truck:** Percentage of the traffic volume made up of units with more than one trailer.

### QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

**K Factor:** The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

**QK:** Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

**Dir Factor:** The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

**AAWDT:** Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.





**QW:** Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

**Year:** Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

## Route Shield Legend

### Route Systems

North 	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Secondary Route	

### Special Routes

Bus 	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
ALT 	ALT - Alternate Route
	Wve - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

Virginia Department of Transportation  
Mobility Management Division  
2003  
Annual Average Daily Traffic Volume Estimates By Section of Route  
United States

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Mecklenburg County																
4		0.53	920	N	From:	South End of John H. Kerr Dam				N	0.107	N	0.61	920	N	2003
					To:	North End of John H. Kerr Dam										
Grayson County																
48	Blue Ridge Parkway	4.69	2000	O	From:	North Carolina State Line					NA			NA		2003
					To:	Carroll County Line										
Carroll County																
48	Blue Ridge Parkway	12.75	2000	O	From:	Grayson County Line					NA			NA		2003
					To:	US 52										
48	Blue Ridge Parkway	15.59	2000	O	From:						NA			NA		2003
					To:	Patrick County Line										
Patrick County																
48	Blue Ridge Parkway	6.33	2000	O	From:	Carroll County Line					NA			NA		2003
					To:	US 58										
48	Blue Ridge Parkway	0.42	2000	O	From:						NA			NA		2003
					To:	Floyd County Line										
Floyd County																
48	Blue Ridge Parkway	5.92	2000	O	From:	Patrick County Line					NA			NA		2003
					To:	Patrick County Line										
Patrick County																
48	Blue Ridge Parkway	0.88	2000	O	From:	Floyd County Line					NA			NA		2003
					To:	Floyd County Line										
Floyd County																
48	Blue Ridge Parkway	5.23	2000	O	From:	Patrick County Line					NA			NA		2003
					To:	SR 8										
48	Blue Ridge Parkway	11.62	1000	O	From:						NA			NA		2003
					To:	Franklin County Line										
Franklin County																
48	Blue Ridge Parkway	1.51	1000	O	From:	Floyd County Line					NA			NA		2003
					To:	Floyd County Line										
Floyd County																
48	Blue Ridge Parkway	16.05	1000	O	From:	Franklin County Line					NA			NA		2003
					To:	US 221										
48	Blue Ridge Parkway	0.03	1000	O	From:						NA			NA		2003
					To:	Roanoke County Line										
Roanoke County																
48	Blue Ridge Parkway	14.69	1000	O	From:	Floyd County Line					NA			NA		2003
					To:	US 220										
48	Blue Ridge Parkway	8.79	1000	O	From:						NA			NA		2003
					To:	SR 24										
48	Blue Ridge Parkway	3.64	1200	O	From:						NA			NA		2003
					To:	Botetourt County Line										
Botetourt County																
48	Blue Ridge Parkway	2.97	1200	O	From:	Roanoke County Line					NA			NA		2003
					To:	US 221, US 460										
48	Blue Ridge Parkway	11.32	1200	O	From:	Urban Boundary					NA			NA		2003
					To:	Bedford County Line										

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








Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Bedford County																
48 Blue Ridge Parkway	2.18	1200	O		From:	Botetourt County Line					NA			NA		2003
48 Blue Ridge Parkway	1.80	1200	O		To:	SR 43					NA			NA		2003
					From:											
					To:	Botetourt County Line										
Botetourt County																
48 Blue Ridge Parkway	3.11	1200	O		From:	Bedford County Line					NA			NA		2003
48 Blue Ridge Parkway	11.28	1200	O		To:	SR 43					NA			NA		2003
					From:											
					To:	Bedford County Line										
Bedford County																
48 Blue Ridge Parkway	10.61	1200	O		From:	Botetourt County Line					NA			NA		2003
48 Blue Ridge Parkway	0.19	1200	O		To:	US 501					NA			NA		2003
					From:											
					To:	Amherst County Line										
Amherst County																
48 Blue Ridge Parkway	2.38	1200	O		From:	Bedford County Line					NA			NA		2003
48 Blue Ridge Parkway	15.86	1200	O		To:	SR 130					NA			NA		2003
					From:											
					To:	Rockbridge County Line										
Rockbridge County																
48 Blue Ridge Parkway	0.15	1200	O		From:	Amherst County Line					NA			NA		2003
48 Blue Ridge Parkway	18.29	1200	O		To:	US 60					NA			NA		2003
					From:											
					To:	Nelson County Line										
Nelson County																
48 Blue Ridge Parkway	0.08	1200	O		From:	Rockbridge County Line					NA			NA		2003
48 Blue Ridge Parkway	11.09	1200	O		To:	SR 56					NA			NA		2003
					From:											
					To:	Augusta County Line										
Augusta County																
48 Blue Ridge Parkway	15.97	1200	O		From:	Nelson County Line					NA			NA		2003
48 Skyline Drive	18.17	1600	M		To:	US 250					NA			NA		2003
					From:											
					To:	Albemarle County Line										
Albemarle County																
48 Skyline Drive	3.65	1600	M		From:	Augusta County Line					NA			NA		2003
					To:											
					To:	Rockingham County Line										
Rockingham County																
48 Skyline Drive	8.44	1600	M		From:	Albemarle County Line					NA			NA		2003
					To:											
					To:	Greene County Line										
Greene County																
48 Skyline Drive	2.08	1600	M		From:	Rockingham County Line					NA			NA		2003
					To:											
					To:	Rockingham County Line										
Rockingham County																
48 Skyline Drive	3.26	1600	M		From:	Greene County Line					NA			NA		2003
					To:											
					To:	Greene County Line										



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2Axle 3+Axle 1Trail 2Trail																
Greene County																
48 Skyline Drive	1.33	1600	M	From:	Rockingham County Line					NA			NA			2003
				To:	Rockingham County Line											
Rockingham County																
48 Skyline Drive	1.93	1600	M	From:	Greene County Line					NA			NA			2003
				To:	Greene County Line											
Greene County																
48 Skyline Drive	1.01	1600	M	From:	Rockingham County Line					NA			NA			2003
				To:	Rockingham County Line											
Rockingham County																
48 Skyline Drive	0.10	1600	M	From:	Greene County Line					NA			NA			2003
				To:	US 33											
48 Skyline Drive	2.69	2700	M	From:	US 33					NA			NA			2003
				To:	Greene County Line											
Greene County																
48 Skyline Drive	1.33	2700	M	From:	Rockingham County Line					NA			NA			2003
				To:	Rockingham County Line											
Rockingham County																
48 Skyline Drive	2.53	2700	M	From:	Greene County Line					NA			NA			2003
				To:	Page County Line											
Page County																
48 Skyline Drive	7.77	2700	M	From:	Rockingham County Line					NA			NA			2003
				To:	Madison County Line											
Madison County																
48 Skyline Drive	14.77	2700	M	From:	Page County Line					NA			NA			2003
				To:	Rappahannock County Line											
Rappahannock County																
48 Skyline Drive	4.99	2700	M	From:	Madison County Line					NA			NA			2003
				To:	Page County Line											
Page County																
48 Skyline Drive	0.06	2700	M	From:	Rappahannock County Line					NA			NA			2003
				To:	US 211											
48 Skyline Drive	3.01	2000	M	From:	US 211					NA			NA			2003
				To:	Rappahannock County Line											
Rappahannock County																
48 Skyline Drive	4.41	2000	M	From:	Page County Line					NA			NA			2003
				To:	Page County Line											
Page County																
48 Skyline Drive	2.09	2000	M	From:	Rappahannock County Line					NA			NA			2003
				To:	Rappahannock County Line											
Rappahannock County																
48 Skyline Drive	5.92	2000	M	From:	Page County Line					NA			NA			2003
				To:	Warren County Line											
Warren County																
48 Skyline Drive	1.69	2000	M	From:	Rappahannock County Line					NA			NA			2003
				To:	Rappahannock County Line											

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Route	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Rappahannock County																
 Skyline Drive	3.87	2000	M	From:	Warren County Line					NA			NA			2003
				To:	Warren County Line											
Warren County																
 Skyline Drive	10.47	2000	M	From:	Rappahannock County Line					NA			NA			2003
				To:	US 340; Front Royal											
James City County																
 Colonial Parkway	8.05	6100	O	From:	Jamestown Visitor Center				F	NA			13000	G		2003
				To:	Williamsburg Corporate Limit											
City of Williamsburg																
 Colonial Parkway	3.20	6100	O	From:	James City County Line				F	0.091	F		NA			2003
				To:	York County Line											
York County																
 Colonial Parkway	11.36	6100	O	From:	Williamsburg Corporate Limit				F	NA			490	G		2003
				To:	99-1020, Moore House Rd; Yorktown Visitor Center											
Loudoun County																
 Dulles Access Road	0.71	44000	O	From:	Washington Dulles International Airport				F	NA			13000	G		2003
				To:	Fairfax County Line											
Fairfax County																
 Dulles Access Road	12.94	44000	O	From:	Loudoun County Line				F	NA			490	G		2003
				To:	SR 267 Dulles Toll Road, McLean											
 George Washington Me	8.44	40000	O	From:	SR 235 Mount Vernon Memorial Hwy				F	NA			13000	G		2003
				To:	SCL Alexandria											
City of Alexandria																
 George Washington Me	1.81	33000	O	From:	1st Street				F	NA			490	G		2003
				To:	NCL Alexandria											
Arlington County																
 George Washington Me	5.56	51000	O	From:	NCL Alexandria				F	NA			490	G		2003
				To:	00-6741											
 George Washington Me	3.10	70000	O	From:					F	NA			490	G		2003
				To:	Arlington County Line											
Fairfax County																
 George Washington Me	4.62	70000	O	From:	Arlington County Line				F	NA			490	G		2003
				To:	I-495 Capital Beltway											